Attorney Docket No.: A-Attorney Docket No.: A-69235-3/DJB/RMS/DCF

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

GUNDERSON et al.

Serial No. 10/045,575

Filed: October 26, 2001

For:

DETECTION OF NUCLEIC ACID

REACTIONS ON BEAD ARRAYS

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to:

INFORMATION DISCLOSURE STATEMENT STATEMENT OF RELATEDNESS

Assistant Commissioner for Patents Washington, DC 20231

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicant wishes to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO-1449.

Since copies of all the references were provided either by the Applicant or the Examiner in the following related U.S. Applications; Serial No. 09/553,993, filed April 20, 2000; and U.S.S.N. 09/556,463, filed April 21, 2000, upon which the instant application relies for its priority date, in accordance with 37 C.F.R. § 1.98(d), no copies of the references are enclosed.

In accordance with the provisions of 37 C.F.R. §§ 1.97(c) and 1.97(e)(1), the undersigned certifies that reference 18, 61, 77, 100-101, 110, and 138 listed on the enclosed form PTO-1449 was cited in the International Search Report dated November 08, 2001, for a counterpart PCT

Serial No.: 10/045,575 **Filed**: October 26, 2001

application. A copy of the International Search Report for the counterpart PCT application is enclosed herewith.

With respect to patent applications, the applicants point out their duty under M.P.E.P. §2001.06(b) to disclose relevant patent applications of which they are aware. To this end, the applicants draw the Examiner's attention to the following patent applications:

- United States Serial Number 09/425,633, filed October 22, 1999; U.S.S.N.
 09/535,854, filed March 27, 2000.
- U.S.S.N. 09/517,945, filed March 3, 2000 and U.S.S.N. 10/021,906, filed
 December 12, 2001.
 - 3. U.S.S.N. 09/513,362, filed February 25, 2000.
- U.S.S.N. 09/556,463, filed April 21, 2000, and U.S.S.N. 09/553,993, filed April 20, 2000.
- 5. U.S.S.N. 08/818,199, filed March 24, 1997, now Patent No. 6,023,540; U.S.S.N. 09/151,877, filed September 11, 1998, now Patent No. 6,327,410; U.S.S.N. 09/786,896, filed September 10, 1999; U.S.S.N. 09/450,829, filed November 29, 1999, now Patent No. 6,266,459; U.S.S.N. 09/816,651, filed March 23, 2001; U.S.S.N. 09/840,012, filed April 20, 2001; U.S.S.N. 09/925,292, filed August 08, 2001; and U.S.S.N. 10/005,201, filed December 04, 2001.
- 6. U.S.S.N. 08/944,850, filed October 6, 1997; U.S.S.N. 09/287,573, filed April 6, 1999.
- 7. United States Serial Number 09/189,543, filed November 10, 1998; U.S.S.N. 09/344,526, filed June 24, 1999; U.S.S.N. 09/748,706, December 22, 2000.
- 8. U.S.S.N. 09/256,943, filed February 24, 1999; U.S.S.N. 09/473,904, filed December 28, 1999; U.S.S.N. 09/606,369, filed June 28, 2000.

Serial No.: 10/045,575

Filed: October 26, 2001

None of the foregoing references are believed to disclose the invention as claimed. Nothing

herein shall constitute an admission concerning the contents of any of the cited references, nor shall

the inclusion of a reference herein be considered an admission that the reference constitutes prior art

against the invention claimed in the above-identified application. Submission of the present

document shall not be construed as an admission that a search has been made or that better art does

not exist.

This Information Disclosure Statement is being filed within three months of the filing date

of a national application, within three months of the date of entry of a national stage, or before the

mailing date of a first Office Action on the merits, 37 C.F.R. § 1.97(b), and therefor no fee is

required. The Commissioner is authorized to charge any additional fees which may be required, or

credit any overpayment to Deposit Account No. 06-1300

(Our Order No. A-69235-3/RMS/DCF).

Respectfully submitted,

FLEHR, HOHBACH, TEST,

ALBRITTON & HERBERT

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known					
Application Number	10/045,575				
Filing Date	October 26, 2001				
First Named Inventor	Gunderson et al.				
Group Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Attorney Docket Number	A-69235-3/RMS/DCF				

				U.S. PATENT DOCU	JMENTS		
Examiner Initials*			U.S. Patent Documen		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
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	1	5,494,810		Barany et al.	02/1996		
	2	5,830,711		Barany et al.	11/1998		
	3	5,856,083		Chelsky et al.	01/1999		
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	16	5,660,988		Duck et al.	08/1997		
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	17	wo	93/25563	A1	City of Hope	12/1993		
	18	wo	97/31256	A3	Cornell Research Foundation	08/1997		
	19	WO	97/40385	A1	Seul, M.	10/1997		
	20	wo	98/13523	Ai	Pyrosequencing AB	04/1998		
	21	WO	00/58516	A2	Whitehead Institute for Biomedical Research	10/2000		
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(use as many sheets as necessary) Group Art Unit Not Yet Assigned **Examiner Name** Not Yet Assigned 7 A-69235-3/RMS/DCF Sheet 2 of Attorney Docket Number

			U.S. PATENT DOC	UMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Document Number Kind Code (if known		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	22	5,474,895	Ishii et al.	12/1995	
	23	5,610,287	Nikiforov	03/1997	
	24	5,763,175	Brenner	06/1998	
	25	5,604,097	Brenner	02/1997	
	26	5,679,524	Nikiforov et al.	10/1997	
	27	5,780,231	Brenner	07/1998	
	28	5,795,714	Cantor et al.	08/1998	
	29	6,027,889	Barany et al.	02/2000	,
	30	4,822,746	Walt	4/1989	
	31	5,002,867	Macevicz	3/1991	
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	34	5,143,853	Walt	9/1992	
	35	5,028,545	Soini	7/1991	

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Examiner Initials*	Cite No.1	Foreign Patent Document Kind Code ²		Name of Patentee or Applicant of Cited Document	Date of Publication of	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Office ³	Number ⁴ (if known)	or cited Bottament	Cited Document MM-DD-YYYY	Figures Appear	T ⁶
	36	WO	99/67641	Illumina Inc.	12/1999		
	37	wo	00/39587	Illumina Inc.	07/2000		
	38	wo	00/47996	. Illumina Inc.	08/2000		
	39	WO	00/48000	Illumina Inc.	09/2000		
	40	wo	00/63437	Illumina Inc.	10/2000		
	41	wo	00/71243	Illumina Inc.	11/2000		
	42	wo	00/71995	Illumina Inc.	11/2000		
	43	wo	00/75373	Illumina Inc.	12/2000		ŀ

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Signature	 Considered		

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Group Art Unit	Not Yet Assigned
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Attorney Docket Number	A-69235-3/RMS/DCF

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	44	5,244,636		Walt et al.	9/1993	
	45	5,244,813		Walt et al.	9/1993	
	46	5,250,264		Walt et al.	10/1993	
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	48	5,254,477		Walt	10/1993	
	49	5,298,741		Walt et al.	3/1994	
	50	5,320,814		Walt et al.	6/1994	
	51	5,496,997		Pope	3/1996	
	52	5,512,490		Walt et al.	4/1996	-
	53	5,573,909		Singer et al.	11/1996	
	54	5,633,972		Walt et al.	5/1997	
	55	4,499,052		Fulwyler	2/1985	
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Examiner Initials*	Cite No.1	Foreign l	Patent Document Kind Co Number ⁴ (if kno		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	56	wo	96/30392	A1	COBA-Geigy AG	10/1999		\top
	57	WO	97/46704	A1	Lynx Therapeutics, Inc.	12/1997		
	58	WO	98/31836	A1	Hyseq, Inc.	07/1998		
	59	wo	99/64867	A1	Amersham Pharmacia	12/1999		
	60	WO	00/71992	A1	Illumina, Inc.	11/2000		
	61	EP	0 478 319			4/1992		
	62	EP	0 269 764			6/1988		
	63	WO	93/02360			2/1993		
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Attorney Docket Number

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Examiner Initials*	Cite No.1	U.S. Patent Document	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant
		Number Kind Code ² (if known)	of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear
	64	5,690,894	Pinkel et al.	11/1997	
	65	5,194,300	Cheung	3/1993	
	66	5,132,242	Cheung	7/1992	
	67	4,200,110	Peterson et al.	4/1980	
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Initials*	100.	Office ³	Kind Coo Number ⁴ (if know	of Cited Document	Publication of Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
	76	wo	89/11101		11/1989		
	77	wo	97/14028		4/1997		
	78	EP	0 723 146		7/1996		
	79	WO	98/40726		9/1998		
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	81	wo	98/53093		11/1998		
	82	wo	98/53300		11/1998		
	83	wo	96/03212		2/1996		
	84	WO	99/60170		11/1999		

Examiner Signature	Date Considered	

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STATEMENT BY APPLICANT

Application Number	10/045,575
Filing Date	October 26, 2001
First Named Inventor	Gunderson et al.
Group Art Unit	Not Yet Assigned
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			U.S. PATENT DOCI	UMENTS		
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		Number Kind Code ² (if known)	of Cited Document	MM-DD-YYYY	Passages or Relevant Figures Appear	
	85	5,481,629	Tabuchi	1/1996		
	86	5,575,849	Honda et al.	11/1996		
	87	5,639,603	Dower et al.	6/1997		
	88	5,656,241	Seifert et al.	8/1997		
	89	5,814,524	Walt	10/1998		
	90	5,863,708	Zanzucchi et al.	1/1999		
	91	6,023,540	Walt et al.	2/2000		
	92	5,494,798	Gerdt et al.	2/1996		
	93 ·	5,565,324	Still et al.	10/1996		
	94	5,516,635	Ekins et al.	5/1996		
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·	96	5,888,723	Sutton et al.	3/1999	,	
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	98	5,840,256	Demers et al.	11/1998		
	99	5,854,684	Stabile et al.	12/1998		

					FOREIGN PATENT DOCUMENTS			
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Initials*	NO.	Office ³	Number ⁴	Kind Code ² (if known)	of Cited Document	Publication of Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T ⁶
	100	wo	98/50782	,		11/1998		
	101	wo	99/18434			4/1999		
	102	wo	00/13004			3/2000		
	103	wo	00/16101			3/2000		
	104	wo	00/04372			1/2000		
	105	WO	99/67414			12/1999		

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Substitute for form 1449B/PTO		Complete if Known
INFORMATION DISCLOSURE	Application Number	10/045,575
STATEMENT BY APPLICANT	Filing Date	October 26, 2001
(use as many sheets as necessary)	First Named Inventor	Gunderson et al.
(use as many sneets as necessary)	Group Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
Sheet 6 of 7	Attorney Docket Number	A-69235-3/RMS/DCF

	Υ	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate) title of the	Т
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	106	Chen et al., "A Microsphere-Based Assay for Multiplexed Single Nucleotide Polymorphism Analysis Using Single Base Chain Extension," Genome Research, 10(4):549-557 (2000).	
	107	Iannone et al., "Multiplexed Single Nucleotide Polymorphism Genotyping by Oligonucleotide Ligation and Flow Cytometry," Cytometry, 39:131-140 (2000).	1
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	109	Metzker et al., "Termination of DNA synthesis by novel 3'-modified-deoxyribonucleoside 5'-triphosphates," Nucleic Acids Research, 22(20):4259-4267 (1994).	
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	119	Shoemaker et al., "Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy," Nature Genetics, 14:450-456 (1996).	
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Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
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